

MORRILL PRODUCTS



REG. U.S. PAT. OFF.

CHAS. MORRILL
NEW YORK

GENTLEMEN :

We hand you herewith a copy of our latest catalogue, and beg to quote you :

Sawsets, Bench Stops, Nail Pullers, Box Openers, Punches, Seal Presses and Soapurns.

	Less than 1 doz.	33 1-3%	from list
Not	" "	1 "	40%
"	" "	3 "	50%

Terms: 30 days net, 2% cash 10 days; f. o. b. Providence, R. I.

We desire to call your attention particularly to the following goods:

SAWSETS:

Nearly all sawsets made are either of our manufacture or are imitations or copies. It stands to reason that as originators we know more about sawsetting than any other manufacturer, and, consequently, can turn out more perfect sawsets. We particularly call your attention to page 9 of the catalogue.

BENCH STOPS:

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NAIL PULLERS:

There is or can be no better puller made at any price. It will pay you to look it up. See pages 14 and 15.

BOX OPENER:

This is the simplest, most powerful and durable tool of its kind ever devised. See page 13.

SOAPURNS:

This is a new line for most hardware men but it goes right along with bathroom fittings, and you would be surprised to know how many of them we sell to liquid soap and disinfectant companies. Look around your city and see how many are being used, and you will discover that there is a real live market for them.

We have a catalogue showing full size halftones of the Soapurns that we will be glad to send you, upon request.

Yours very truly,

CHAS. MORRILL.

1152

1914 Catalog of
CHAS. MORRILL
(INC.)

ESTABLISHED 1878

MANUFACTURERS OF

Sawsets

Liquid Soap Dispensers

Bench Stops

Lead Seal Presses

Box Openers

Hand Punches

Nail Pullers

Spike Pullers

All goods of our manufacture are stamped with one or more
of our trade marks as below :

**CHAS.
MORRILL**
REG. U. S. PAT. OFF.
NEW YORK



Notice

All persons are cautioned against infringing our patents or appropriating the
registered trade marks, names and numbers used by us to identify our products

DESTROY all previous issues and get new discount sheet as
Price Lists and Discounts throughout have been changed

Office and Showroom

100 Lafayette St., New York, N. Y., U. S. A.

Factory

Pawtucket, R. I., U. S. A.

Telephone Connection

Cable Address: "SAWSETS"

Western Union Telegraphic Code Used

A Word to the Dealer

THIS is different from the ordinary catalogue as there is included, besides trade descriptions and price-lists, an explanation of why our goods are superior, what they are used for, and how they should be used.

Any dealer who will have his salesmen carefully read this book, together with our booklet "Saw Points," and who will use the various helps we offer, will be well repaid in *increased sales at no additional expense*.

The Kind of Goods That Sell

First class, scientifically designed, well advertised, warranted merchandise for which there is a *popular demand*, is *easy to sell*, *stays sold*, *gives satisfaction to the user*, *promotes confidence in the dealer*, and *brings in business*.

Morrill Quality

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MORRILL products have an *international reputation for quality*, are *simple in construction and operation*, *powerful, durable and interchangeable throughout*, scientifically designed in accordance with the best practice by experts, carefully made by skilled, competent workmen from the most suitable materials, well advertised, attractively packed, and are *warranted against all defects of material or workmanship*.

The Morrill Policy

To conduct business upon the principle of "**the greatest good for the greatest number**," believing that quality merchandise and satisfied customers are the best assets.

We make no seconds, job lots, unbranded, or special branded goods.

Co-operation

We desire to *co-operate* with dealers, and will furnish without charge electrotypes, circulars, and other advertising matter, and will be glad to assist in preparing copy for catalogues, advertisements, etc.

Complaints

Any dealer having trouble with our goods will confer a favor upon us by reporting full details.

Warrant On All Goods Except *Soapurns and Punches*

We will replace without charge any part (NOT THE ENTIRE TOOL) that proves defective in workmanship, material or operation during proper use (NOT ABUSE) within 90 days from date of purchase, and that is sent to us for inspection, carriage prepaid.

Warrant on Soapurns and Punches

These are carefully inspected and warranted to be perfect in all respects when they leave our hands but we do not replace any parts without charge on account of the rough use they are subjected to.

Repairs

Parts can be furnished, and as they can be put in place by anyone, it is an useless expense to send us the tool as the carriage charges and cost of repairs will be out of proportion to the value of the tool.

Returned Goods

No goods must be returned without our written consent.

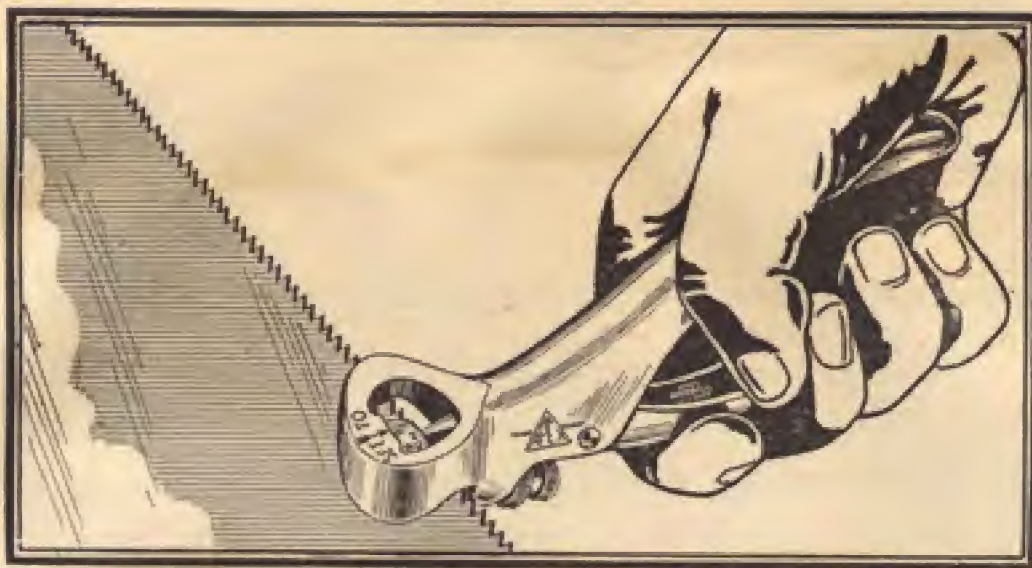
Shipments

We pack carefully and ship goods in a merchantable condition. Our responsibility ceases with the delivery of the goods to the carrier although we are always ready to help the consignee in any adjustment. Claims for missing goods, transportation overcharges, or breakage, should be made to the carrier.

Terms

Those unknown to us and having no commercial rating will please send references or remit with order. No goods sent C. O. D. unless accompanied by a sufficient sum to pay carriage charges both ways.

Overdue accounts charged interest and subject to sight draft without notice. Payments are to be made in New York exchange or collection charges added. No extra charges are made for boxing or casing.



Saw Setting and Sawsets

THE side inclination of saw teeth is called the "set," the groove cut by the saw the "kerf," and the tool used for setting saw teeth a "Sawset."

Saw setting is the process of bending saw teeth alternately to one side or other from their middle line so that they project beyond the saw blade, giving it clearance, thus keeping the saw from binding and heating up, making it run easily and smoothly, and cut straight and clean.

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The depth of set (the distance from its point to where the tooth is bent over) should not be more than one half the depth of the tooth, and varies from about $\frac{1}{32}$ of an inch (.8 mm.) in a Fine Tooth Hand Saw, to about $\frac{3}{8}$ of an inch (9.5 mm.) in a Timber or Board Saw.

The angle at which the tooth is set should vary from about 15 degrees in a Fine Tooth Saw to about 5 degrees in a Timber or Board Saw, making the distance which the point projects beyond the blade vary from less than $\frac{1}{100}$ of an inch (.25 mm.) to about $\frac{1}{16}$ of an inch (1.6 mm.) respectively.

Sawsets should be chosen according to the saw to be set as a Small Sawset used on a Heavy Gauge Saw will break, and a Large Sawset will crush the teeth of a Light Gauge Saw.

Saws were first set by means of a hammer and punch but this method gave no two teeth the same set. The frequent hammerings, if the steel of the saw was soft, strung it so that the teeth dulled quickly; if hard, crystalized it so that they broke out easily.

The notched plate Sawset sprung the saw blade and set the teeth in a curve, and the old fashioned lever Sawsets lacked power.

The modern type Sawset dates from 1878 when CHAS. MORRILL invented the **No. 1 Old Style Sawset** in which the power applied to the handles is multiplied and transmitted without loss to the plunger by a cam. In the **MORRILL Sawsets** the steel of the saw is compressed, making it stronger and more homogeneous.

No. 1 Old Style Sawset



Length: $6\frac{3}{4}$ inches (17.1 cm.)

For Hand, Band and Jig Saws any width and not over 16 gauge

NOTE: 16 gauge is .0625 inches (1.6 mm.)

Per dozen (Polished) \$8.00

Made of semi and tool steel, and packed $\frac{1}{2}$ dozen in a wooden box.

Box measures: 8 x 4.5 x 3 inches (20.3 x 11.4 x 7.6 cm.)

Gross weight: 3.9 lbs. (1.77 kg.) Net: 3.5 lbs. (1.59 kg.)

In the evolution of the MORRILL Sawset there have been many models, the manufacture of which has been discontinued. The No. 1 Old Style would have met the same fate but being the pioneer it has been retained as a matter of sentiment. In the hands of an expert it will set a saw perfectly.

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No. 1 Sawset



Length: $6\frac{3}{4}$ inches (17.1 cm.)

For Hand Saws $\frac{1}{2}$ inch (1.2 cm.) or over in width, and not over 16 gauge

Per dozen (Polished) \$12.00

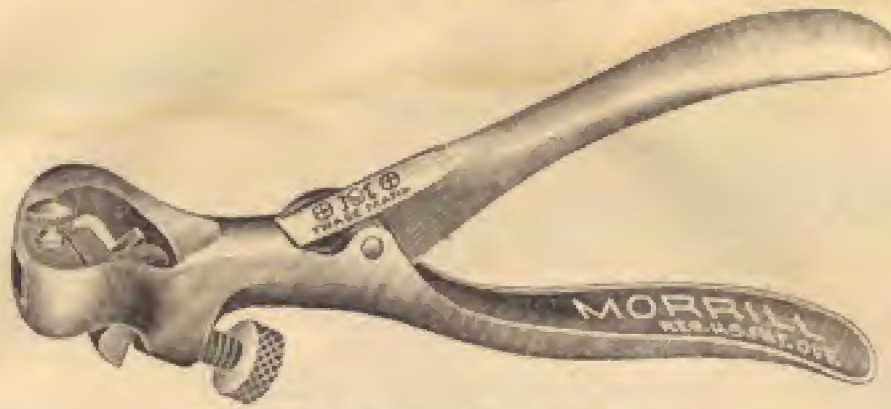
Made of semi and tool steel, and packed $\frac{1}{2}$ dozen in a wooden box.

Box measures: 7.5 x 4.5 x 3 inches (19 x 11.4 x 7.6 cm.)

Gross weight: 3.65 lbs. (1.66 kg.) Net: 3.19 lbs. (1.45 kg.)

The No. 1 is an improvement on the No. 1 Old Style as the anvil, anvil screw and gauge screw are more easily adjusted, and are riveted to the frame so that they cannot be lost.

No. 10 Sawset



Length: $6\frac{3}{4}$ inches (17.1 cm.)

**For Hand, Band, Jig, Butcher and Fret Saws any width,
and not over 16 gauge**

Per dozen (Polished).....\$12.50

Made of semi and tool steel, and packed $\frac{1}{2}$ dozen in a wooden box.

Box measures: 7.5 x 4.5 x 3 inches (19 x 11.4 x 7.6 cm.)

Gross weight: 3.68 lbs. (1.67 kg.) Net: 3.25 lbs. (1.47 kg.)

The No. 10 differs from the No. 1 in that the end of the plunger is narrower for setting Fine Tooth Saws, and the gauge block is run in close to the plunger so that a narrower bladed saw can be set.

No. 11 Sawset



Length: $6\frac{3}{4}$ inches (17.1 cm.)

For Hand, Band and Jig Saws, any width, and not over 16 gauge

Per dozen (Polished).....\$12.50

Made of semi and tool steel, and packed $\frac{1}{2}$ dozen in a wooden box.

Box measures: 7.5 x 4.5 x 3 inches (19 x 11.4 x 7.6 cm.)

Gross weight: 3.9 lbs. (1.77 kg.) Net: 3.5 lbs. (1.59 kg.)

The No. 11 has the same plunger as the No. 1 and a gauge block somewhat similar to the No. 10, so that a saw of any width can be set.

Directions for Using the Nos. 1 Old Style, 1, 10 and 11 Sawsets

First adjust the anvil so that the edge over which the tooth is set will strike it about one half way down (never set a saw tooth over one half its length). For *average wood* run the gauge screw up so that the tooth will be set over about $\frac{1}{100}$ th of an inch (.25 mm.). For *hard wood*, a little less, for *soft, wet or green wood*, a little more. In any case give just enough set to keep the saw from binding. Set the teeth alternately to one side or other as they were originally.

No. 95 Sawset



Length: $6\frac{1}{4}$ inches (17.1 cm.)

**For Hand Saws $\frac{1}{2}$ inch (1.2 cm.) or over in width,
and not over 16 gauge**

Per dozen (Polished).....\$12.50

Made of semi and tool steel, and packed $\frac{1}{2}$ dozen in a wooden box.

Box measures: 7.5 x 4.5 x 2.5 inches (19. x 11.4 x 6.3 cm.)

Gross weight: 3.55 lbs. (1.61 kg.) Net: 3.13 lbs. (1.42 kg.)

The "SPECIAL" and No. 95 Sawsets differ from the No. 1 type in that they have a rotatable anvil which is eccentrically beveled to give any hand saw the correct depth of set, and *are indexed so that they can be used by anyone.* The angle of the bevel is so regulated that a saw tooth cannot be broken. This type of sawset is fast displacing all others.

SUPERIORITY. To keep a saw in condition it is necessary to know the principles upon which it operates. As few persons have this knowledge very few of the No. 1 type sawsets are used properly, and most saws are given too much set with the result that they run hard, cut unevenly and break teeth easily.

The No. 95 type sawset is superior to the No. 1 type because it always sets a saw correctly and does not depend upon the judgment of the user.

Directions for Using the "SPECIAL" and No. 95 Sawsets

The numbers on the anvil correspond to the number of saw points to the inch (2.5 cm.) of the saw. (The number of saw points, which is always one more than the number of teeth, is generally stamped on the saw blade). First find the number of saw points to the inch (2.5 cm.) of the saw, and set the same number on the anvil to the *arrowhead or point of plunger*. Place the Sawset on the saw and run up the gauge screw until the saw just goes through without binding. This is for average wood. For *hard wood* give less set. Set the teeth alternately to one side or other as they were originally.

“SPECIAL” Sawset



Length: 6½ inches (15.6 cm.)

For Hand Saws ½ inch (1.2 cm.) or over in width and not over 16 gauge

Per dozen (Polished).....\$13.00

Made of semi and tool steel. Packed one each in carton having full directions, uses and warrant printed thereon, and containing an illustrated circular on “How to Joint, Set and File Saws”. Then packed one half dozen in a wooden box.

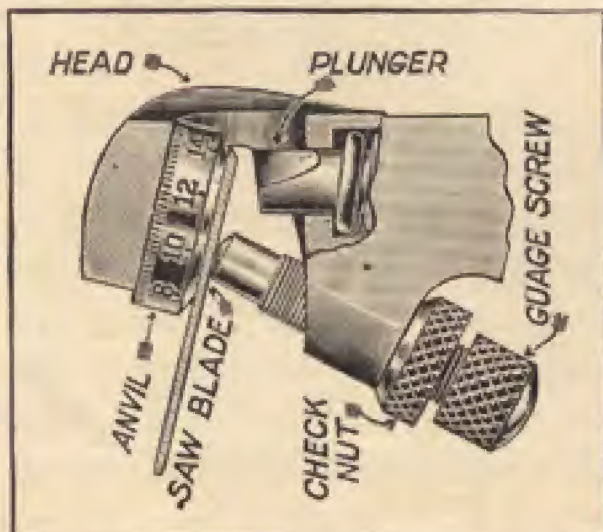
Box measures: 7 x 5.5 x 5 inches (17.8 x 14 x 12.7 cm.)

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Gross weight: 4.5 lbs. (2.04 kg.) Net: 3.5 lbs. (1.59 kg.)

This is the best Sawset (just improved 1914) of its type on the market, and with it *as perfect results can be obtained by an inexperienced person as by the most expert mechanic.*

Advantages of the “SPECIAL” over the No. 95

The anvil gives at one adjustment both the correct angle and depth of set. The No. 95 gives only the correct depth. The anvil is placed on an incline which prevents the end of the plunger from breaking off and allows the operator to *see the angle of set given the saw.* The anvil and head are more completely indexed.



The end of the plunger is narrower and will fit the tooth of any Hand Saw. The gauge screw has a lock nut to keep it from shifting after having once been adjusted.

Advantages Over All Others

The body is closed, keeping out the dirt, housing the plunger and spring, and making a neater looking tool.

The lever handle is underneath, and as the stationary handle rests in the palm of the hand, the sawset cannot wobble or slip off the tooth.

The Sawset for Dealers to Carry

In looking over the various sawsets used for setting hand saws the question naturally presents itself "Why are there so many models which apparently do the same thing, and if there is a difference, which is the best seller and the one to carry?"

The answer is first that there are a number of models because of the natural evolution of the tool, and they have to be manufactured because there is a call for them.

The second part of the question is best answered by reference to the relative percentage of sales of the various models. The Nos. 1 Old Style, 1, 10 and 11 constitute the No. 1 type, and the Nos. 95 and "Special" the 95 type. We sell more No. 1 Sawsets than the Nos. 1 Old Style, 10 and 11 put together, three times as many of the No. 95 type as of the No. 1 type, and twice as many "Specials" as No. 95.

Our advice to the dealer, therefore, is to carry the "Special" and No. 4 Sawsets for Hand saws; No. 3 for single toothed Circular and Cross-cut saws; No. 4 for double toothed Circular and Cross-cut saws, and No. 5 for Timber and Board saws.

Method of Packing

Attention is particularly drawn to the new method of packing the "Special" and Nos. 3, 4 and 5 Sawsets which are our leaders and best sellers.

The cartons keep the goods fresh and presentable, and can be used as window or show-case cards. The printed matter on the cartons gives the clerks most valuable information and fully explains what the sawset is for and how it should be used, and the circular enclosed not only shows the customer how to set a saw but also how to joint and file it, and sends him back to you for tools to do it with.

The circular also brings to the customer's attention that as there are saws for many purposes, so are there sawsets for different kinds of saws, and so creates a larger market. Very often a customer will use a small sawset to set a big saw whereas if he knew that the No. 3, 4 or 5 was the correct one to use, he would buy one.



Nos. 3 and 4 Sawsets



Length : $9\frac{3}{8}$ inches (23.8 cm.)

No. 3 for Single tooth Cross-cut and Circular Saws 14 to 20 gauge

No. 4 for Double tooth Cross-cut Saws (M and Champion tooth)
14 to 20 gauge

NOTE : 14 gauge is .08 inches (2 mm.) 20 gauge is .04 inches (1 mm.)

Per dozen (Cast Finished).....\$16.50

Made of semi and tool steel. Packed one each in carton having full directions, uses and warrant printed thereon, and containing an illustrated circular on "How to Joint, Set and File Saws." Then packed $\frac{1}{2}$ dozen in a wooden box.

Box measures : 10x6x4 inches (25.4x15.2x10.2 cm.)

Gross weight : 8.8 lbs. (3.99 kg.) Net 7 lbs. (3.18 kg.)

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The Nos. 3 and 4 sawsets are very strong, powerful and durable. They have just been improved (1914) by having the head and frame strengthened, a lock nut put on the gauge screw, and a more easily operated set screw used to secure the anvil.

The manufacture of all former models of the Nos. 3 and 4 has been discontinued.

Directions For Using Nos. 3 and 4 Sawsets

Cross-cut and Circular Saws should always be set over at the same distance from their points (usually about $\frac{1}{4}$ of an inch) (6.4 mm.) as they were originally. For *average* wood, Thin Back saws require about $\frac{1}{100}$ of an inch (.25 mm.) set to each side, and Straight Back saws $\frac{1}{50}$ of an inch (.5 mm.).

Saws used on *frozen, hard or very dry wood* require less set, and on *soft, green or wet wood* more.

Set the saw just wide enough to clear and run freely but not so much that it chatters.



Method of Packing

No. 5 Sawset



Length : 15 inches (38.1 cm.)

For Timber and Board Saws 6 to 14 gauge

NOTE: 6 gauge is .20 inches (5.1 mm.) 14 gauge is .08 inches (2mm.)

Per dozen (Cast Finished).....\$24.00

Made of semi and tool steel. Packed one each in carton having full directions, uses and warrant printed thereon, and containing an illustrated circular on "**How to Joint, Set and File Saws.**" Then packed ½ dozen in a wooden box.

Box measures : 16x7.5x4.5 inches (40.6x19x11.4 cm.)

Gross weight : 21.5 lbs. (9.75 kg.) Net : 18.5 lbs. (8.39 kg.)

© 2009 The Toolamera Press - www.toolamera.com
The No. 5 is the largest, strongest and most powerful sawset we make. It has just been improved (1914) by having the head and frame strengthened, and a more easily operated set screw used to secure the anvil.

The manufacture of all former models has been discontinued.

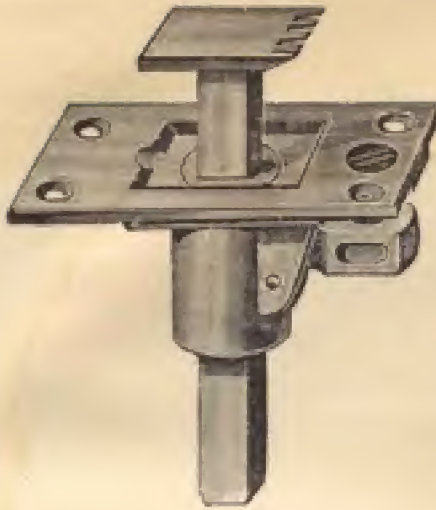
Directions For Using No. 5 Sawset

Timber and Board Saws should always be set over at the same distance from their points (usually about $\frac{3}{8}$ of an inch) (9.5 mm.) as they were originally. For *average* wood the teeth should be set about $\frac{1}{16}$ of an inch (1.6 mm.) to each side. For *frozen, hard or very dry* wood less, and for *soft, green or wet* wood more.



Method of Packing

Bench Stops



A **Bench Stop** is a necessity in every shop, being used to hold wood in position on a work bench when planing or otherwise working it. It is sunk into the work bench so that it is flush when not in use, and by means of a set screw the toothed stop can be raised to any desired height.

No. 1 Bench Stop

Face: $3\frac{1}{2} \times 2$ inches (8.9x5.1 cm.)
Stop: $1\frac{1}{4}$ inches square (3.2 cm.)

Per dozen, (face polished)\$8.00

Made of semi and wrought steel, and packed $\frac{1}{2}$ dozen in a wooden box,

Box measures: $8 \times 5.5 \times 3$ inches (20.3x14x7.6 cm.)

Gross weight: 5.9 lbs. (2.68 kg.) Net: 5.25 lbs. (2.38 kg.)

The **No. 1 Bench Stop** is *very strong* and *durable*. Its best recommendation is the fact that of the great quantity in use and the number of years it has been on the market *we have not received a single complaint about it.*

No. 2 Bench Stop

Face: 4×2 inches (10.2x5.1 cm.)
Stop: $1\frac{1}{2}$ inches square (3.8 cm.)

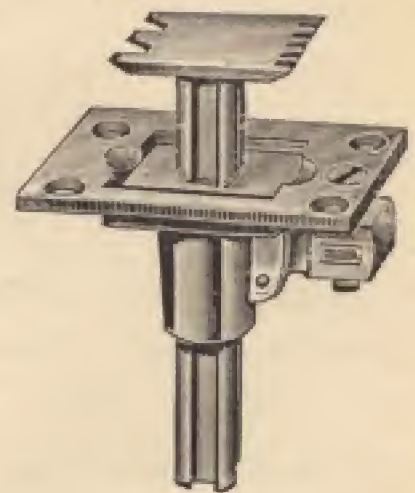
Per dozen, (face polished)\$10.00

Made of semi and wrought steel, and packed $\frac{1}{2}$ dozen in a wooden box.

Box measures: $9.5 \times 6.5 \times 3$ inches (24.2x16.5x7.6 cm.)

Gross weight: 8.4 lbs. (3.81 kg.) Net: 7.5 lbs. (3.40 kg.)

The **No. 2 Bench Stop** is larger than the **No. 1** and has two sets of teeth, one *coarse* and the other *fine*. For very fine work the smooth sides of either the **No. 1** or **No. 2** can be used as the stop can be placed in any quarter.



No. 1 Box Opener

Length: 14 inches (35.6 cm.) Weight: 1¾ lbs. (.79 kg.)

Per dozen (forged finish, claws polished).....\$14.50

Made in one piece of drop forged steel and packed one dozen in a wooden box.

Case measures: 15.5 x 5.5 x 5.5 inches (39.4 x 14 x 14 cm.)

Gross weight: 24.25 lbs. (11.0 kg.) Net: 22 lbs. (9.98 kg.)

The **Box Opener** is an **I-beam** Sectioned, Combined Box Chisel, Nail Puller, Hammer, Box Strap, Box Wire Cutter and Pry, and will **open any box or case without damage.**

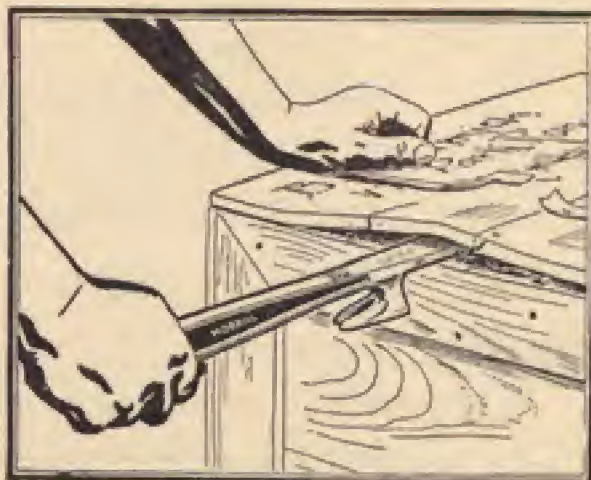
Scientifically designed to give the greatest possible strength and durability with little weight, it possesses a balance not found in any other tool used for a like purpose.

This strength and balance enables the user to accomplish the maximum amount of work with the minimum effort.

The initial fulcrum is placed as close to the nail head as possible so that the greatest power is obtained where most needed. As the nail comes out, the fulcrum increases. The peculiar shape of the hammer head (forming a sliding, rolling fulcrum) causes the nail to come out perfectly straight.

Directions

If the box is strapped with wire or iron band, slip the ends of the hammer claw under the wire or band and cut it in two by bringing the handle up. Then insert the chisel under the lid, and pry it up about one quarter of an inch (6.4 mm.). Do this all along one side and then knock the lid back against the box. This will leave the nails sticking out so that they can easily be gotten hold of with the hammer claws.



No. 1 Nail Puller

The No. 1 Nail Puller will pull twice as many nails with one half the effort as by other means, and will outlast any other nail puller. It will pull cement coated nails, nails driven through iron bands or into hard wood.

Length: 18 inches (45.7 cm.) Weight: 4 lbs. (1.81 kg.)
Thrust: 5 inches (12.7 cm.)

Per dozen\$16.00

Shank and foot are drop forged steel; I-beam section, forged finish; ram, cast iron, japanned.

Packed one each in a *kraft envelope* having full directions, uses and warrant printed thereon, and then packed one dozen in a wooden case.

Case measures: 21 x 9 x 6.5 inches (53.3 x 22.9 x 16.5 cm.)

Gross weight: 55 lbs. (24.95 kg.) Net: 48 lbs. (21.77 kg.)

The ram is scientifically proportioned to withstand hard use and is made of cast iron as that resists abrasion better than softer materials such as

malleable iron. Being elliptical in cross section it will not roll.

The foot has a groove through it in which the shank is centrally mounted on a large pin. This centers the strain and keeps the jaws from spreading apart as they do with *nail pullers riveted together in a scissor bearing*.

The shank has integral with it a handle and guard which prevent the ram from bruising the hand.



Detail Showing Jaws Mounted Together

The MORRILL Nail Puller has no springs to break

and has a straight arm pull instead of a bent one. It begins its pull on one half the usual fulcrum and so has twice the initial power of any other puller and where needed. As the nail is withdrawn the fulcrum increases. The peculiar shape of the foot, forming a sliding, rolling fulcrum, causes the nail to come out perfectly straight.

If broken the Nail Puller *can be repaired by anyone with a hammer and punch alone*, and does not have to be taken to a blacksmith.

Directions for Use

Place the edge of the foremost jaw $\frac{1}{8}$ of an inch (3.2 mm.) ahead of the nail and force it under the head by a couple of sharp blows with the ram, then bring back the handle, thus withdrawing the nail.

The Morrill Nail Puller and Morrill Box Opener

are complementary, some users preferring one, some the other, and in many cases using both. They are both scientifically designed to do the maximum amount of work with the minimum effort, and are made of the very best materials, so that in ordinary use will last a lifetime.

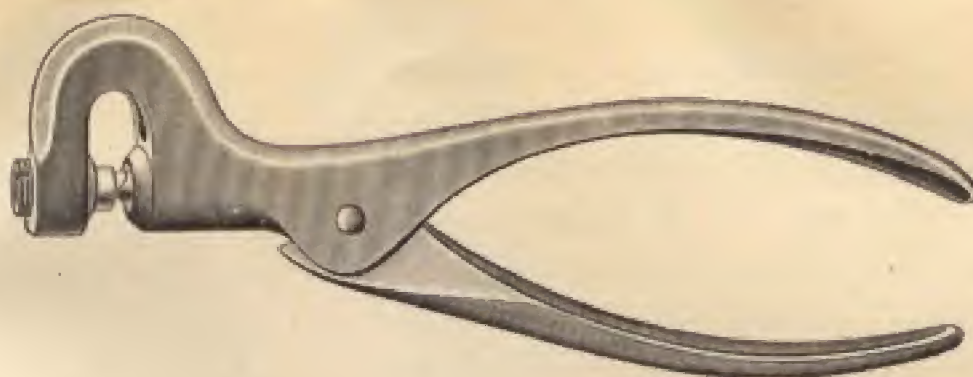
These statements may sound exaggerated but these tools are in use all over the World among people who know what a tool of this kind should be, and we have on file in our office a large number of unsolicited testimonials as to their worth and superiority.



Nail Puller Envelope

No. 1 Punch

For Paper, Leather, Fibre and similar materials, (not for metal)

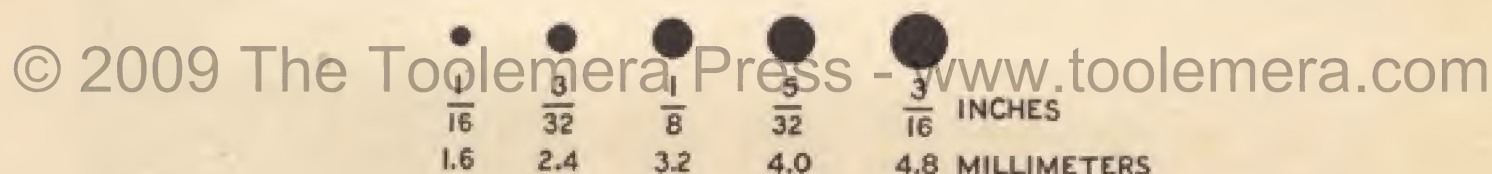


Used by business and professional men to punch holes in papers so as to insert fasteners; bicycle repair men, to make lacing holes in shoes of pneumatic tires; manufacturers of very thin sheet metal goods; leather workers, and by manual training school pupils in Venetian iron work.

Length: 7 inches (17.8 cm.) Depth of throat: $\frac{3}{4}$ inches (1.9 cm.)

Per dozen (Polished) \$12.00

ORDER BY SIZE OF DIE AS INDICATED BELOW



Made of semi and tool steel, and packed $\frac{1}{2}$ dozen in a wooden box.

Box measures: 8x4x3 inches (20.3x10.2x7.6 cm.)

Gross weight: 4.4 lbs. (2 kg.) Net: 4 lbs. (1.81 kg.)

Special sizes and shapes of dies between $\frac{1}{16}$ (1.6 mm.) and $\frac{3}{16}$ (4.8 mm.) can be made to order. *Prices upon application.*

The **MORRILL hand punch** is the *acme of simplicity and strength*. It has only two moving parts, the plunger and handle, and utilizes the powerful combination of cam and lever.

It will punch any thickness from tissue to $\frac{1}{4}$ inch (6.4 mm.) of pliable substance. Although these punches are *very powerful in comparison to other types of hand punches*, because they are more efficient, it should be noted that the punching power of a hand punch, neglecting losses, depends entirely upon the strength of the hand, the travel of the handle, and the travel of the plunger. Thus if the hand has a compressive strength of 50 lbs. (22.68 kg.), the handles travel three inches (7.6 c.m.) and the plunger $\frac{1}{2}$ inch (1.2 cm.), the punching power will be $3 \times \frac{1}{2} \times 50 = 300$ lbs. (136.08 kg.). The larger the hole and the thicker the material to be punched, the more will be the power required.

“Hercules” Punch

FOR SHEET METAL














Used by Plumbers, Sheet Metal Workers, Roofers, Tinsmiths, Etc.

Length: 11½ inches (29.2 cm.) Weight: 2½ lbs. (1.1 kg.)
Depth of throat: 1 inch (2.5 cm.)

The “Hercules” Punch, cast finished, each with 1 set of dies...\$4.00
Set of dies (screw die and punch point)..... 1.00

ORDER BY SIZE OF DIE AS INDICATED BELOW

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$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$	$\frac{3}{8}$ INCHES
1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8.0	8.8	9.5 MILLIMETERS

The “Hercules” Hand Punch will punch a hole $\frac{1}{4}$ inch (6.4 mm.) in diameter through No. 18 B. & S. gauge .05 inches (1.3 mm.) sheet iron or its equivalent. It is not suitable for punching paper as the opening between the die and punch is only $\frac{1}{16}$ of an inch (1.6 mm.).

All punches and dies are interchangeable without taking the Punch apart. The upper die screws into the frame, and the lower die or punch-point is held in place on the plunger by means of a set screw. The Punch frame is made of cast steel and cannot be broken by hand pressure. The dies are made of tool steel.

After punching through the metal the punch-point should be stripped by springing apart the handles instead of trying to work it loose by moving the Punch from side to side.

The screw die should be screwed down so that the punch-point goes into it about $\frac{1}{16}$ of an inch (1.6 mm.). This makes a cleaner hole and dislodges the material previously cut out.

Liquid Soap Dispensers



The **SOAPURN** is a *strong, durable, sanitary, economical, fool-proof, inexpensive device for the dispensing of liquid soap*, and has been perfected and standardized after many years of actual use and experimentation.

It consists of a strong glass jar, attached to either the wall or wash stand, and has a dispensing valve operated by the palm of the hand.

The valve is *simple and positive*; has but one moving part and is made from **NICCO**, a non-corrodible metal. The soap enters the upper part of the valve, and when the piston is pushed up, flows below it. As the piston is released there is forced out several drops of soap. A double shut off prevents a continual flow.

The difference between the valves used is that those in Nos. 1, 2 and 3 are *machined from solid stock* and those in the 4 and 5 are made up from stock sized *sheet and rods*. This enables us to make a **lower price** on the Nos. 4 and 5. The mechanism and operation of the two valves are somewhat different. We make only the highest grade liquid soap dispensers, as *cheap, poorly made ones will not stand service*, particularly the rough use they are subject to in public places.

Merchants who install Dispensers as part of their Leasing System appreciate that the upkeep of a device is often many times its original cost. *Our aim is to make the upkeep of the Soapurn negligible.*



No. 1
1/2 Size

SEND FOR SOAPURN CATALOGUE
SHOWING FULL SIZED REPRODUCTIONS OF ALL MODELS AND GIVING COMPLETE INFORMATION.

No. 1 Soapurn

Has Lock Top and Key, for Public Use.
Capacity 12 oz. (.35 Liters) 600 Washes.

With Wall bracket, weight 1.56 lbs.

(.71 kg.)..... Per dozen \$30.00

With Slab bracket, weight 2 lbs.

(.91 kg.)..... Per dozen \$36.00



No. 2
1/4 Size
No. 3
3/4 Size

No. 2 Soapurn

Has Bayonet Lock Cover, for Private Use.
Capacity 12 oz. (.35 Liters) 600 Washes.

With Wall bracket, weight 1.5 lbs.
(.68 kg.)..... Per dozen \$27.00

With Slab bracket, weight 1.94 lbs.
(.88 kg.)..... Per dozen \$33.00

No. 3 Soapurn

Has Bayonet Lock Cover, for Private Use.
Capacity 6 oz. (.18 Liters) 300 Washes.

With Wall bracket, weight 1.13 lbs. (.51 kg.)..... Per dozen \$24.00

Not furnished with Slab bracket.

No. 4 Soapurn

For Private Use.

Capacity 10 oz. (.30 Liters) 500 Washes.

To fill: the glass is first unscrewed from the bracket and then the valve is unscrewed from the glass.

With Wall bracket, weight .94 lbs.
(.43 kg.)..... Per dozen \$15.00

Not furnished with Slab bracket.



No. 4
1/4 Size



No. 5
1/4 Size

No. 5 Soapurn

Has Lock Top and Key, for Public Use.
Capacity 14 oz. (.41 Liters) 700 Washes.
Has same valve as No. 4 but cemented on. *Is filled through the top.*

With Wall bracket, weight 1.13 lbs.
(.51 kg.)..... Per dozen \$21.00

With Slab bracket, weight 1.5 lbs.
(.68 kg.)..... Per dozen \$27.00

Specially lettered glass without our name can be furnished at
no extra charge in 2 1/2 gross lots.

No. 1 Seal Press



Largely used by Express, Railway, Electrical and Gas Companies, Government Inspectors, Cigar Manufacturers, and other shippers of sealed merchandise to protect their goods from being tampered with.

Length : 10 inches (25.4 cm.)

Per dozen (Japanned) \$16.00

Made of semi and tool steel, and packed $\frac{1}{2}$ dozen in wooden box.

Box measures : 11x6x3 inches (27.9x15.2x7.6 cm.)

Gross weight : 9.5 lbs. (4.31 kg.) Net : 8.44 lbs. (3.83 kg.)

"Pocket" Seal Press



Length : 6 inches (15.2 cm.)

Per dozen (Japanned) \$16.00

“ “ (Nickeled) 20.00

Japanned will be furnished unless otherwise ordered

Made of semi and tool steel, and packed $\frac{1}{2}$ dozen in wooden box.

Box measures : 7x5.5x3 inches (17.8x14x7.6 cm.)

Gross weight : 5.1 lbs. (2.31 kg.) Net : 4.75 lbs. (2.15 kg.)

Construction

The Lead Seal Presses are constructed on the same principle as our Hand Punches, and are *powerful, simple and durable*.

They are made with adjustable dies $\frac{9}{16}$ inch (1.4 cm.) in diameter, which can be easily and quickly removed without taking the press apart. This allows the dies to be sunken or engraved very easily, and permits the use of several sets of dies in one press. The *lower* die fits over the head of the plunger and is secured by a screw, while the *upper* die screws into the head and is adjustable so that any thickness of lead seal up to $\frac{3}{8}$ inches (9.5 mm.) may be used.